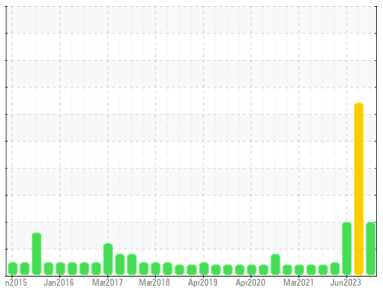
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
RP-101
Machine Id
B57004 - NORTH DISCHARGE SCREW (S/N 10023277475)
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 320 (--- GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear
A decrease in the iron level is noted. All component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0943499**	WC0826197	WC0814174
Sample Date		Client Info		**21 Jun 2024**	27 Sep 2023	16 Jun 2023
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	SEVERE	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

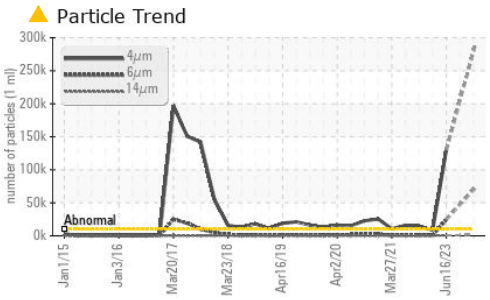
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**47**	▲ 417	23
Chromium	ppm	ASTM D5185m	>15	**0**	4	0
Nickel	ppm	ASTM D5185m	>15	**0**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	0	0
Lead	ppm	ASTM D5185m	>100	**0**	<1	0
Copper	ppm	ASTM D5185m	>200	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>25	**0**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

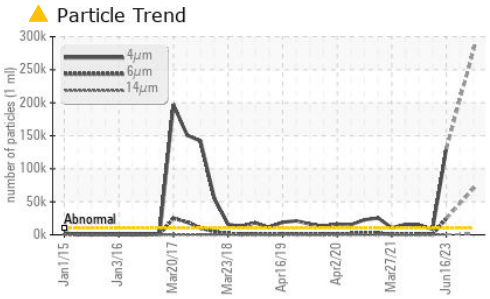
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	55	**33**	30	33
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**<1**	<1	0
Manganese	ppm	ASTM D5185m	0	**<1**	4	<1
Magnesium	ppm	ASTM D5185m	0	**27**	<1	0
Calcium	ppm	ASTM D5185m	0	**28**	<1	0
Phosphorus	ppm	ASTM D5185m	240	**390**	508	441
Zinc	ppm	ASTM D5185m	1	**42**	3	0
Sulfur	ppm	ASTM D5185m	13700	**17951**	7467	6353

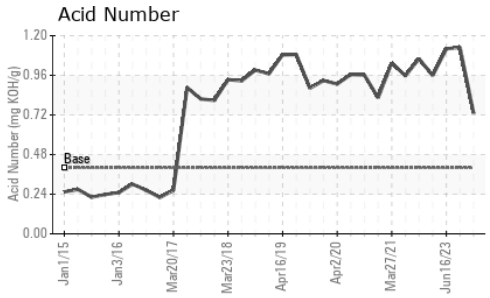
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**<1**	3	<1
Sodium	ppm	ASTM D5185m		**<1**	2	1
Potassium	ppm	ASTM D5185m	>20	**2**	<1	0

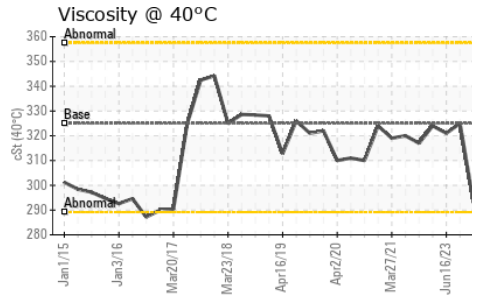
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **280199**	---	▲ 130429
Particles >6µm		ASTM D7647	>2500	▲ **69972**	---	▲ 24788
Particles >14µm		ASTM D7647	>320	▲ **1223**	---	▲ 691
Particles >21µm		ASTM D7647	>80	▲ **144**	---	▲ 161
Particles >38µm		ASTM D7647	>20	**4**	---	10
Particles >71µm		ASTM D7647	>4	**0**	---	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **25/23/17**	---	▲ 24/22/17

OIL ANALYSIS REPORT







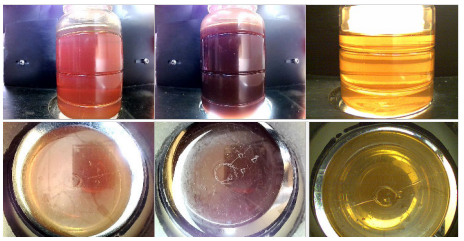


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.73**	1.13	1.12

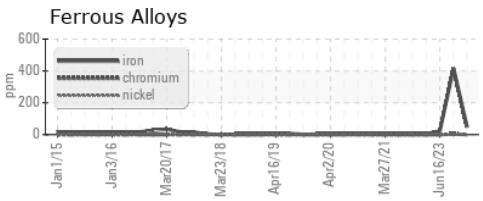
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	MILKY	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

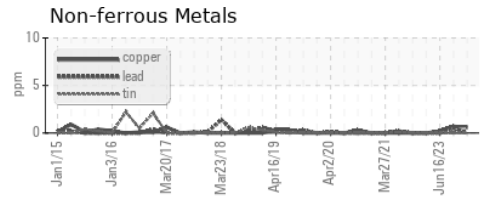
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	325	**293**	325	321

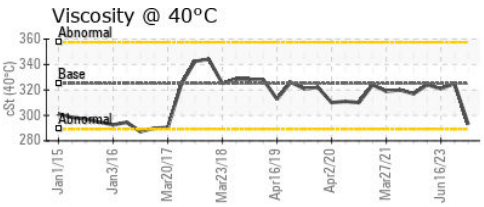
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

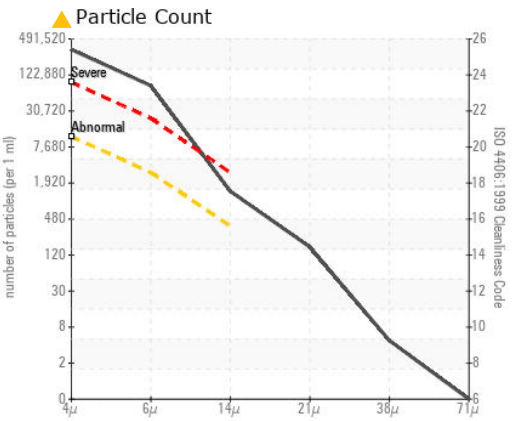


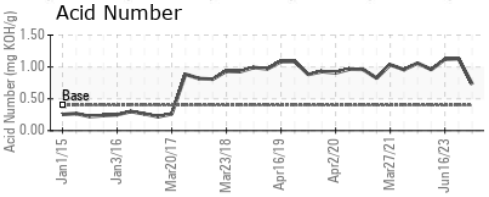
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0943499 **Received** : 26 Jun 2024
Lab Number : 06221160 **Tested** : 27 Jun 2024
Unique Number : 11099357 **Diagnosed** : 27 Jun 2024 - Don Baldridge
Test Package : IND 2 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Report Id: HORAUS [WUSCAR] 06221160 (Generated: 06/27/2024 20:03:42) Rev: 1
Contact/Location: RYAN LOWE - HORAUS